

**IN THE ABSTRACT**

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**ABSTRACT**

Functional assays that use the T1R3 receptor to screen for taste modulatory compounds are provided. These assays include cell-based assays and high throughput functional assays that identify compounds which activate or modulate T1R3 receptor activation. Preferred functional assays detect the effect of a putative taste modulatory compound on intracellular voltage or intracellular calcium of a cell that expresses T1R3 polypeptide, preferably in association with a G protein, e.g. Gα15.

The compound identified in such functional assays potentially have application or taste modulator and potential flavor enhancer or modulator for additives to foods and beverages for human or animal consumption.